

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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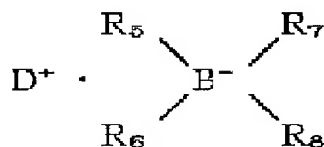
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APPLICANT : SHOWA DENKO KK;

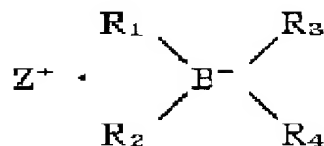
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INT.CL. : C09D 5/24 H01B 1/22 H05K 1/09

TITLE : PHOTODETTERING CONDUCTIVE PASTE



I



II

ABSTRACT : PURPOSE: To obtain a low-cost paste containing a specified cationic dye having an absorption band in near infrared region, a specific sensitizer and a specified conductive substance, capable of photo-curing a composition containing a high opacifying material and reducing the amount of solvent and heating energy and useful for an electronic component, etc.

CONSTITUTION: This paste contains (A) a polymerizable unsaturated compound, (B) a cationic dye represented by  $\text{D}^+ \cdot \text{A}^-$  (D is a cation having an absorption band in near infrared region;  $\text{A}^-$  is various kinds of anions), preferably formula I [ $\text{R}_5$  to  $\text{R}_8$  are each a (substituted) anion, a (substituted) aryl, a (substituted) allyl, a (substituted) aralkyl, a (substituted) alkenyl, a (substituted) alkynyl, a (substituted) silyl, a heterocycle or a halogen], (C) a sensitizer of formula II (a quaternary ammonium cation, a quaternary pyridinium cation, a quaternary quinolinium cation, a phosphonium cation or a metal cation;  $\text{R}_1$  to  $\text{R}_4$  are the same as  $\text{R}_5$  to  $\text{R}_8$ ) and (D) a conductive substance, preferably silver, copper, nickel, palladium or silver-plated copper powder.

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